

CLAIMS

WHAT IS CLAIMED:

1. A method, comprising:

initiating compilation of a file in a processor-based system in advance of a request

5 from a user to compile the file;

detecting the user request to compile the file; and

indicating a status of the compilation of the file in response to detecting the user
request.

10 2. The method of claim 1, wherein initiating compilation of the file comprises
compiling the file including one or more code segments to produce an object code file.

15 3. The method of claim 2, wherein compiling the file comprises compiling one or
more code segments in the file to produce an object code file, and further comprising linking
the object code file to produce an executable file.

4. The method of claim 1, wherein indicating the status of the compilation of the
file comprises at least one of indicating that the compilation was successful and indicating
that the compilation was unsuccessful.

20 5. The method of claim 1, wherein initiating compilation of the file comprises
compiling the file in response to determining that the file has been modified.

6. The method of claim 1, wherein determining that the file has been modified
25 comprises determining that the modified file has been saved to a storage unit.

7. The method of claim 1, wherein the file includes one or more code segments, further comprising:

determining that the file has been modified;

5 identifying the modified file in a work queue; and

initiating the compilation of the file based on the modified file being identified in the work queue.

8. The method of claim 1, wherein indicating the status of the compilation of the file comprises generating one or more files associated with the compilation of the file, storing the one or more generated files in a temporary location, and transferring the one or more files from the temporary location to a different location in response to detecting the user request.

9. An article comprising one or more machine-readable storage media containing instructions that when executed enable a processor to:

initiate compiling of a file including one or more code segments;

detect a user request to compile the file; and

provide a result associated with the compiling in response to detecting the user request.

20 10. The article of claim 9, wherein the instructions when executed enable the processor to display a message to a user indicating that one or more errors were detected during the compiling.

11. The article of claim 9, wherein the instructions when executed enable the processor to indicate to a user that the compiling was successful.

5 12. The article of claim 9, wherein the instructions when executed enable the processor to generate a file containing object code based on compiling the file and to store the object code file in a temporary location.

10 13. The article of claim 12, wherein the instructions when executed enable the processor to move the object code file from the temporary location into a product location based on determining that the compiling of the file was successful and in response to detecting the user request.

15 14. The article of claim 9, wherein the instructions when executed enable the processor to initiate compiling of the file based on determining that the file was modified.

15 15. The article of claim 14, wherein the instructions when executed enable the processor to indicate in a work queue that the file has been modified and to initiate compiling of the file in response to detecting the indication.

20 16. An apparatus, comprising:
means for initiating compilation of a file in a processor-based system in advance of a
request from a user;
means for detecting the user request to compile the file; and
means for indicating a status of the compilation of the file in response to detecting the
user request.

17. An apparatus, comprising:

a storage unit having a file stored therein; and

a control unit communicatively coupled to the storage unit, the control unit adapted

5 to:

initiate compilation of the file in advance of a request from a user to compile

the file;

detect the user request to compile the file; and

indicate a status of the compilation of the file in response to detecting the user

10 request.

18. The apparatus of claim 17, wherein the control unit is adapted to compile a file

including one or more code segments to produce an object code file.

15 19. The apparatus of claim 18, wherein the control unit is adapted to link the object code file to produce an executable file.

20. The apparatus of claim 19, wherein the control unit is adapted to store the executable file in a temporary location and to transfer the executable file from the temporary location to a different location based on detecting the user request.

21. The apparatus of claim 18, wherein the control unit is adapted to at least one of indicate that the compilation was successful and indicate that the compilation was unsuccessful.

25

22. The apparatus of claim 17, wherein the control unit is adapted to compile the file in response to determining that the file has been modified.

23. The apparatus of claim 17, wherein the control is adapted to:

5 determine that the file has been modified;
identify the modified file in a work queue; and
initiate the processing of the file based on the modified file being identified in the work queue.

10 24. A method, comprising:

identifying one or more source files that have been modified in a processor-based system;
initiating processing of at least a portion of the modified source files before receiving a request to process the modified files;
receiving the request to process at least one of the modified files; and
15 providing a status associated with the processing of the file in response to receiving the request.

20 25. The method of claim 24, wherein the processor-based system is adapted to execute an integrated development environment module, wherein identifying the one or more files comprises the integrated development environment module placing the one or more of the source files that have been modified in a queue.

26. The method of claim 25, wherein placing the one or more of the source files in the queue comprises placing at least one source file in the queue in response to a user saving the source file to a storage unit.

5 27. The method of claim 25, wherein placing the one or more of the source files in the queue comprises placing at least a portion of one source file in the queue in response to a user saving the source file to a storage unit using an editor and then exiting from the editor.

10 28. The method of claim 25, wherein placing the one or more of the source files in the queue comprises placing at least one source file in the queue in response to determining that a user desires to compile at least a portion of the source file as the source file is being edited.

15 29. The method of claim 25, wherein placing the one or more of the source files in the queue comprises placing at least one source file in the queue in response to determining that the source file includes at least one marker identifying a section of the source file that should be compiled, and wherein initiating processing of at least the portion of the one or more modified files comprises compiling the identified section of the source file.

20 25 30. The method of claim 25, wherein initiating the processing of the modified source files comprises causing a background thread to awaken in response to placing the one or more of the source files in the queue, where the background thread thereafter initiates processing of the source files.

31. The method of claim 25, wherein initiating the processing comprises initiating a build process to produce a software application and wherein receiving the request comprises receiving the request to building the software application.

5

32. The method of claim 25, wherein initiating the build process comprises performing compiling the modified source files to produce object code files and linking the object code files to produce executable files.

10 33. The method of claim 32, wherein the object code files and the executable files are stored in a first storage location.

34. The method of claim 32, further comprising suppressing at least one of an error and warning that is detected while compiling the modified source files.

15

35. The method of claim 32, wherein the object code files and the executable files are moved to a different storage location in response to detecting the request and in response to detecting no error or warning.

20 36. The method of claim 24, wherein identifying one or more source files comprises identifying the one or more source files based on a directed acyclic graph.

37. The method of claim 36, wherein the directed acyclic graph includes a list of dependent files, wherein identifying one or more source files comprises identifying at

least one modified source file and another source file that is dependent on the modified source file using the directed acyclic graph.